

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 1-7. (Canceled)
8. (Previously Presented) A method comprising performing density gradient centrifugation on bone marrow; and isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml.
9. (Currently Amended) The method according to claim [[1]]8, wherein said performing uses an isotonic solution of Ficoll® or Percoll®.
10. (Currently Amended) The method according to claim [[2]]9, wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.
11. (Currently Amended) A mesenchymal stem cell obtained according to a method ~~of claim 8 comprising~~ performing density gradient centrifugation on bone marrow; and isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml.
12. (Currently Amended) [[A]] ~~The mesenchymal stem cell obtained according to a method of claim [[9]]11 wherein said performing uses an isotonic solution of Ficoll® or Percoll®.~~
13. (Currently Amended) [[A]] ~~The mesenchymal stem cell obtained according to a method of claim [[10]]12 wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.~~
14. (Currently Amended) A pharmaceutical preparation comprising a mesenchymal stem cell obtained according to a method comprising performing density gradient centrifugation on bone marrow; and

isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml according to claim 11.

15. (Currently Amended) ~~[[A]] The pharmaceutical preparation comprising a mesenchymal stem cell according to~~ of claim [[12]]14 wherein said performing uses an isotonic solution of Ficoll® or Percoll®.

16. (Currently Amended) ~~[[A]] The pharmaceutical preparation comprising a mesenchymal stem cell according to~~ of claim [[13]]15 wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.

17. (Currently Amended) ~~A method of manufacturing a~~ The pharmaceutical preparation of claim 14 further comprising formulating isolated mesenchymal stem cells according to claim 1 ~~and~~ a pharmaceutically acceptable excipient and/or carrier.

18. (Currently Amended) ~~A method of manufacturing a~~ The pharmaceutical preparation of claim 15 further comprising formulating isolated mesenchymal stem cells according to claim 2 ~~and~~ a pharmaceutically acceptable excipient and/or carrier.

19. (Currently Amended) ~~A method of manufacturing a~~ The pharmaceutical preparation of claim 16 further comprising formulating isolated mesenchymal stem cells according to claim 3 ~~and~~ a pharmaceutically acceptable excipient and/or carrier.

20. (Previously Presented) A method of isolating mesenchymal stem cells from bone marrow comprising performing density gradient centrifugation using a solution of Ficoll® or Percoll® with a density of 1.068 g/ml.